EXHIBIT 🎏 - SAMPLING SYSTEM

METERING BYATION: Metering station shall include and consist of the following items:

- a. FIBERGLASS REINFORCED PLASTIC PACKAGED METERINS MANHOLE. Manhole shall meet the requirements of ASTM D3753 and shall be complete with integral Parshall flume for flow measurement, manhole reducer for cast iron manhole ring and lid, end adaptors for quick connection to pipe, and an internal ladder. FRP Manhole shall be as indicated on plans and conform to that manufactured by Plast-Fab, or equal.
- b. FIRERGLASS REINFORCED PLASTIC ENCLOSURE. The enclosure designed for outdoor installation and shall be constructed of one piece molded fiberglass reinforced plastic. The englesure shall have a beige del coat exterior with ultraviolet light inkibitors. The access door opening shall have a continuous closed cell neoprend rubber gasket. The enclosure interior shall be insulated with ; a minimum of one inch thick rigid polyurethane foam. The enclosure shall have grade 304 stainless steel rainproof vents. Door latches and hinges shall be chrome plated brass or stainless steel with provision for locking. The enclosure shall have a double duplex outlet and a 500 Watt, 120 VAC heater with adjustable thermostat. The enclosure shall have a flanged bottom perimeter suitable for installation on a concrete pad or floor. The enclosure shall be as indicated on the plans and conform to that manufactured by American Sigma, or equal.
- c. COMPOSITE SAMPLER: The composite sampler shall be capable of pumping uniform, small increment samples into a single recontacte at flow proportioned intervals. Sampler what have an impactated ice compartment for maintaining samples and be provided with an authmatic shutoff to prevent accidental overflow. Instrumentation shall be weatherproof with a single wateritight, stainless steel housing for all electronic and mechanical components. Sampling frequency shall be based on flow and unit shall he self purging following each sample to prevent cross contamination between samples. Case whall be constructed of high impact plastic with removeable sections : for dase of cleaning or servicing. Sampler power small be provided from 120 VAC, 60 Hz source. Suction line and strainer shall be 3/8" 1.0. by 20' vinyl suction line with weighted nolypropylene bodied strainer. Sampling container hall be 3 gal|lon polyethylen∉ container with lid and polypr pylene lid container. Composite sampler shall be as that manufactured by TSCO, inc. model 1580, or equal.

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## EXHIBIT # - SAMPLING SYSTEM

- d. OPEN CHANNEL FLOW METER: There shall be furnished a totalizing open channel flow meter, using a submerged pressure transducer to measure depth for use the Parshall flume primary measuring device. The flow meter shall have a full scale liquid level range of 0.08 to 8.33 feet. The flow meter shall be supplied with a digital electronic level adjustment control to allow for simple front panel calibration. The level shall be measured with a maximum error of  $\pm 7-0.01$  ft. over a range of 0.08 to 4.0 ft $\downarrow$  Liquid level shall be measured through the use of a level subsor. The level[sensor shall consist of a submerged probe permanently joined to an electronics package by a 15 ft. cable. The electronics package shall convert the low level transducer output into a digital signal and shall be housed in a structural form plastic enclosure with a stainless steel hose fitting to provide venting for the pressure transducer. The flow meter shall require 12 VDC power which shall be supplied by the accompanying Sampler. The flow meter shall have backup battery power to maintain ¢alibration during short power outages. Flow meter shall be as that manufactured by ISCO. Inc., Model 2300, or equal.
- There shall be furnished a digital plotting device, compatible with the flow meter, to record the flow rate and total flow measured by the flow meter. The plotter shall simultaneously record the flow rate, total flow, time of day, date and full scale span. The plotter shall also record sampling events. The plotter shall have selectable thart speeds full scale level spans, and flow rate spans. The plotter shall be powered by the accompanying flow meter and shall be furnished with cable to connect the plotter to the meter. Plotter shall be as that manufactured by ISCO, Inc., Model 2310, or equal.
- f. POWER: Fower shall be provided from the Commonwealth Edison system and shall be rated at no less than 120 VAC at aOHz.

Metering Station shall include material, installation, and connection costs for manhole, enclosure, sampler, flow meter, plotter, and 120 VAC power.